

» Curricula are designed to prepare students for careers in a broad variety of technical fields and graduate studies

- » Five Tracks of Specialization
- » Most courses have a laboratory and hands-on components to enhance classroom instruction
- » It emphasizes on the application of theory for solving real-life problems
- » Forms the connection between the designer and the technical personnel (operation).

#### **SPECIALIZATION IN:**

- Mechatronics
- Instrumentation and Control
- Industrial Engineering
- Renewable Energy
- Green Building Architecture

State-of-the-art Laboratories

### CONTACT US

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# ENGINEERING TECHNOLOGY

## **Bachelor of Science**

#### The University of Texas Rio Grande Valley

Signature program in the Brownsville Campus

### B.S. in Engineering Technology

#### Dear Prospective Student:

Welcome to the Engineering Technology Department of the University of Texas Rio Grande Valley. The Bachelor of Science degree in Engineering Technology will prepare you for an exciting career in a variety of manufacturing, quality, automation, energy, production and applicationrelated positions in industry.

As industry and society become increasingly reliant on technology, it also becomes more dependent on trained specialists. At UTRGV's Engineering Technology, you will be at the forefront of technology with high-level education and state of the art laboratories. Our courses are taught by a faculty with advanced academic degrees and many years of industrial experience. Curricula are designed to prepare students for careers in a broad variety of technical fields and graduate studies.

With five distinct tracks of specialization (Mechatronics, Instrumentation and Control, Industrial Engineering, Renewable Energy, and Green Building Architecture), the Engineering Technology program clearly distinguishes itself from traditional engineering programs. Most courses have a laboratory and hands-on components to enhance classroom instruction, it emphasizes on the application of theory for solving real-life problems, and forms the connection between the designer and the technical personnel.

I am sure you will find the material on this welcome packet handy. It contains valuable information about the program offered by the Engineering Technology Department, the sequence and pre-requisites for all the classes, laboratories facilities, academic clubs, and contact information for the department faculty and staff.

I invite you to be part of our Engineering Technology family. Do not hesitate to visit us and learn more about our program. Please also visit our website at https://www.utrgv.edu/et for further information.

Sincerely,

Dr. Jesus Gonzalez Program Director of Engineering Technology **Collaborative Robot** 

### **Computer Aid Manufacturing**



#### Courses

MATH 2413 Calculus I (or MATH 2487 Honors) PHYS 2425 Physics for Scientists & Engr. I PHYS 2426 Physics for Scientists & Engr. II PHIL 2326 Ethics, Technology and Society ENGL 23XX English Literature CHEM 1111 General Chemistry I Lab ENGT 1105 Machine Shop Lab ENGT 1301 Foundations of Engineering Technology ENGT 1310 Design Graphics I ENGT 1320 Design Graphics II ENGT 2307 Engineering Materials ENGT 2310 Manufacturing Processes ENGT 3301 Computer Numerical Control ENGT 3303 Programmable Logic Controllers ENGT 3318 Instruments and Transducers ENGT 3324 Metrology ENGT 4201 Technical Project I ENGT 4202 Technical Project II ENGT 4315 Robotics ENGT 4326 Lean Six Sigma ENGT 4335 Project Management ENGT 3300 Topics in Engineering Technology **INFS 2300 Data Modeling Management Tools** MANE 2332 Engineering Statistics MANE 3337 Engineering Economics ELEE 2317 Electrical & Electronic System CHEM 1311 General Chemistry I MATH 2414 Calculus II

COMM 1311 Introduction to Communication